PV260 Course introduction

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Agenda

- About me
- About you
- Course organization
- Requirements
- Path to software quality
- Recommended reading
- About Y Soft

About me

- 5+ years full-time developer
- Mainly .NET/C#
 - Docker, K8S, Helm, Azure
 - F#, Typescript, Python, Go, Java
- https://www.linkedin.com/in/radimgoth/

Course organization

- 12-13 workshops
 - Often lead by me, some lead by my colleagues from Y Soft

- Evaluation
 - Semestral project, 3 milestones (15 points each)
 - 10 points for activity
- Attendance
 - Mandatory

Requirements

- Bring your own laptop
- Visual Studio 2019/2022 or Rider
 - Keep it updated
 - .NET 5+ dev environment
- Azure subscription?
- In person
 - Pen and paper
- Online
 - Zoom
 - Miro https://miro.com
 - Slack?

It doesn't take a huge amount of knowledge and skill to get a program working.

Getting it right is another matter entirely. Getting software right is *hard*.

Robert C. Martin - Clean Architecture

When a software is done right

- Fewer bugs
- Easy to maintain
- Easy to add new functionality
- Easy to onboard new developers
- Easy to troubleshoot a problem
- 5

- Secure
- Scalable
- Performing well
- Functionally suitable
- Reliable
- 3

How

Knowledge

• SOLID principles and clean code, object oriented design, agile development, software architecture, secure software lifecycle, design patterns,...

Skills

• Test-driven development, user story mapping, refactoring, domain-driven design, code reviews, teamwork,...

Recommended reading

- The Pragmatic Programmer, David Thomas, Andrew Hunt
 - https://pragprog.com/book/tpp20/the-pragmatic-programmer-20th-anniversary-edition
- Refactoring, Improving the Design of Existing Code: Martin Fowler
 - https://martinfowler.com/books/refactoring.html
- Test Driven Development: By Example, Kent Beck
 - https://www.amazon.com/Test-Driven-Development-Kent-Beck/dp/0321146530
- Clean Code: A Handbook of Agile Software Craftsmanship, Robert C. Martin
 - https://www.amazon.com/gp/product/0132350882/ref=dbs a def rwt bibl vppi i
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About YSOFT

- Print and scan management
 - Distributed, highly scalable architecture, 3D print, OCR, cloud K8S, Helm, Azure, HW card readers, terminals, boards,... .NET Core, React, Java, Spring,...
- LESS without managers
 - https://less.works/

- https://www.youtube.com/watch?v=ig36a8tHAtE
- Y Soft | Práce a stáže pro studenty (daretothinkbyg.com)
- Y Soft | Pracovní nabídky (daretothinkbyg.com)